

99-D-128, Stockpile Management Restructuring Initiative Pantex Plant, Amarillo, Texas

(Changes from FY 2000 Congressional Budget Request are denoted with a vertical line [|] in the left margin.)

Significant Changes

| # None.

1. Construction Schedule History

	Fiscal Quarter				Total Estimated Cost (\$000)	Total Project Cost (\$000)
	A-E Work Initiated	A-E Work Completed	Physical Construction Start	Physical Construction Complete		
FY 1999 Budget Request (<i>Preliminary Estimate</i>)	2Q 1999	2Q 2003	4Q 2000	4Q 2006	42,380	49,600
FY 2000 Budget Request	3Q 1999	4Q 2001	2Q 2000	4Q 2004	13,218	17,863
FY 2001 Budget Request (<i>Current Baseline Estimate</i>)	3Q 1999	4Q 2001	2Q 2000	4Q 2004	13,218	17,863

2. Financial Schedule

(dollars in thousands)

Fiscal Year	Appropriations	Obligations	Costs
1999	1,108	1,108	74
2000	3,416 ^a	3,416	4,318
2001	4,998	4,998	2,057
2002	3,300	3,300	5,141
2003	286	286	1,518
2004	110	110	110

^aOriginal appropriation was \$3,429,000. This was reduced by \$13,000 for the FY 2000 rescission enacted by P.L. 106-113.

3. Project Description, Justification and Scope

The Pantex Plant Stockpile Management Restructuring Initiative (SMRI) Project will provide for the design and construction for various relocation and upgrades and for the shutdown of obsolete structures. The project will help to reduce the plant footprint by consolidating functions into fewer and more modern facilities.

The scope for this project has been established based upon the Department of Energy's directed workload for the Pantex Plant. This directed workload is the weapons work Pantex is directed to do through Program Control Documents (PCDs), Retirement/Disposal Program Control Documents, the Quality Assurance Production Plan (QAPP), and other special written requests provided by DOE.

The technical baseline for this project has been broken up into three parts that are detailed below:

Relocation of High Explosive Formulation to 11-050

This portion of the SMRI project will remove existing High Explosive (HE) machining equipment from Building 11-050 following startup of HE machining operations in Building 12-121. Building 11-050 will be modified to receive the HE formulation related operations currently performed in Building 12-019 East and Building 12-017, and selected operations and equipment from Building 11-017. Following modifications to Building 11-050 the required equipment from these buildings will be relocated and the equipment put into operation in Building 11-050. Finally, Building 12-019 East will be placed into a long-term caretaker status. Equipment and support items will be procured and/or relocated as required and any items that cannot be successfully relocated will be replaced. This portion of the SMRI project will be designed to meet the applicable DOE and regulatory requirements in place at the start of Title I design.

Relocate Mass Properties

This portion of the SMRI project will relocate the Mass Properties function to Buildings 12-084 and 12-104 and will consist of modifications to the buildings to accept the mass properties operations from Building 12-060. Four existing pieces of equipment will be replaced by procuring two new, more technically advanced pieces of equipment. Equipment and support items will be procured and/or relocated as required and any items that cannot be successfully relocated will be replaced. This portion of the SMRI project will be designed to meet the applicable DOE and regulatory requirements in place at the start of Title I design.

Relocate 35 Account Materials

This portion of the SMRI project will relocate the 35 Account warehousing activities in Buildings 12-005A, 12-005B, 12-010, 12-009, and Ramp 12-R-010 into Building 12-118. The 35 Account activities include materials in contact with a weapon or weapon component during a weapon assembly, disassembly or test units. Typical materials include such items as epoxy resin, paint, dry air, rubber gloves and acetone. Equipment and support items will be procured and/or relocated as required and any items that cannot be successfully relocated will be replaced. This portion of the SMRI project will be designed to meet the applicable DOE and regulatory requirements in place at the start of Title I design. Buildings 12-005A, 12-005B, 12-010, and 12-R-010 will be placed into Long-term Caretaker status.

Project Milestones:

FY 1999: A-E Work Initiated	3Q
FY 2000: Construction Start	2Q
FY 2004: Physical Construction Complete	4Q

4. Details of Cost Estimate

(dollars in thousands)		
	Current Estimate	Previous Estimate
Design Phase		
Preliminary and Final Design costs (Design Drawings and Specifications)	1,210	1,210
Project Management costs (4.4% of TEC)	579	579
Total, Design Costs (13.5% of TEC)	1,789	1,789
Construction Phase		
Improvements to Land	61	61
Buildings	4,298	4,298
Other Structures	510	510
Utilities	20	20
Standard Equipment	2,873	2,873
Removal Cost Less Salvage	35	35
Inspection, Design and Project Liaison, Testing, Checkout and Acceptance	146	146
Construction Management (5.8% of TEC)	773	773
Project Management (3.4% of TEC)	455	455
Total, Construction Costs (69.4% of TEC)	9,171	9,171
Contingencies		
Design Phase (2.7% of TEC)	358	358
Construction Phase (14.3% of TEC)	1,900	1,900
Total, Contingencies (17.1% of TEC)	2,258	2,258
Total, Line Item Costs (TEC) ^a	13,218	13,218

^aEscalation rates taken from the FY 1999 DOE escalation multiplier tables. The estimate was based on the Independent Cost Reviews (ICR 6/97 and 8/97) of the Conceptual Design Report (Revision 1) and included security guard costs under project management. The current estimate is based on new burden rates and correctly includes security guard costs under construction management.

5. Method of Performance

The design services (Title I, II, and III) will be accomplished by an outside A-E firm and will be administered by the Operating Contractor (Mason and Hanger Corporation). Mason and Hanger Corporation will perform portions of the design for selected projects.

The construction services of this project will be performed by an outside construction contractor operating under a contract to be awarded on the basis of competitive bids. This contract will be administered by the Operating Contractor (Mason and Hanger Corporation).

Construction Management Services will be performed by the DOE Operating Contractor.

6. Schedule of Project Funding

(dollars in thousands)						
	Prior Years	FY 1999	FY 2000	FY 2001	Outyears	Total
Project Cost						
Facility Cost						
Design	0	74	1,705	289	79	2,147
Construction	0	0	2,613	1,768	6,690	11,071
Total, Line item TEC	0	74	4,318	2,057	6,769	13,218
Total, Facility Costs (Federal and Non-Federal) . .	0	74	4,318	2,057	6,769	13,218
Other Project Costs						
Conceptual design cost	768	0	0	0	0	768
NEPA documentation costs	348	60	40	33	72	553
Other ES&H costs	40	43	20	38	97	238
Other project-related costs	384	196	781	782	943	3,086
Total, Other Project Costs	1,540	299	841	853	1,112	4,645
Total, Project Cost (TPC)	1,540	373	5,159	2,910	7,881	17,863

7. Related Annual Funding Requirements

(FY 2004 dollars in thousands)		
	Current Estimate	Previous Estimate
Annual facility operating costs ^a	355	355
Annual facility maintenance/repair costs	218	218
Programmatic operating expenses directly related to the facility	1,418	1,418
Capital equipment not related to construction but related to the programmatic effort in the facility	350	350
Utility costs	106	106
Total related annual funding (operating from FY 2004 through FY 2033)	2,447	2,447

^aEstimated life of project—30 years.